# FRENCHMAN DAM

#### **Fact Sheet**

### PROJECT DESCRIPTION

- **♦** Impounds Frenchman Creek in Phillips County.
- ♦ Located approximately 20 miles north of Saco.
- Owned by DNRC & managed by SWPB.
- ♦ Operated by Frenchman Water Users Association since 1952.
- Project consists of:
  - ◆ Earthen Embankment Dam, 44 feet high, 2,100 feet long.
  - ♦ Reinforced concrete spillway, 119 feet-wide, with uncontrolled ogee crest.
  - ♦ 60-inch, 230 foot-long reinforced concrete outlet with 2, 60-inch slide gates (one emergency and one operating).
- ♦ Original construction completed in 1951; the dam failed during a flood in 1952 and was subsequently rebuilt.
- Reservoir storage design capacity was 7010 acre-feet at spillway crest (see deficiencies), covering an estimated 800 to 1,000 surface acres.
- ◆ 19 water users, irrigates approximately 7000 acres.

# **PROJECT DEFICIENCIES**

- ♦ Voids underneath the spillway and offset joints indicate progressive deterioration.
- ♦ Sedimentation has greatly diminished the storage capacity by about 50% (based on aerial photography the existing capacity is estimated at 3752 acre-feet).

### PROPOSED REHABILITATION

A feasibility study was funded by the 2007 Legislature to determine the best alternatives for rehabilitation. The rehabilitation would include the following:

- Replace the spillway with a new structure.
- Restore lost storage capacity.

Estimated cost: May exceed \$3,000,000



Downstream face Outlet



Spillway and county road bridge

Upstream face

